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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16

07.04.2015

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	Improvements to roads & drains at 1st, 2nd, 3rd, 5th & 6th Cross & other Cross Roads at Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/374/2014-15 Dated: 31.03.2015
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	07.04.2015

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines	21.73	22.14	
	100* (W_2/W_1)%			**21.93**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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For Civil Experts Consultants

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16

06.04.2015

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	Improvements to roads & drains at 1st, 2nd, 3rd, 5th & 6th Cross & other Cross Roads at Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/374/2014-15 Dated: 31.03.2015
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	06.04.2015

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	383	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines	21.93	22.54	
	100* (W_2/W_1)%			22.24

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 06.04.2015

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of Work	Improvements to roads & drains at 1st, 2nd, 3rd, 5th & 6th Cross & other Cross Roads at Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/374/2014-15 Dated: 31.03.2015
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Sample ID	WMM Layer
Date of Testing	06.04.2015

Result : Flakiness Index = **11.38%**

Elongation Index = **13.49%**

Result : Combined Flakiness & Elongation index 24.87%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 06.04.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Improvements to roads & drains at 1st, 2nd, 3rd, 5th & 6th Cross & other Cross Roads at Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : EE/DD/WO/374/2014-15 Dated: 31.03.2015

Date of Testing : 06.04.2015

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **13705**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	385	385	2.8	97.2	95-100
22.4	3685	4070	29.7	70.3	60-80
11.2	3256	7326	53.5	46.5	40-60
4.75	2137	9463	69.0	31.0	25-40
2.36	1885	11348	82.8	17.2	15-30
0.600	925	12273	89.6	10.4	8-22
0.075	1042	13315	97.2	2.8	0-8

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Job No: CECTC-BBMP-KRIDL-W.No.14-2015-16 15.04.2015

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	Improvements to roads & drains at 1st, 2nd, 3rd, 5th & 6th Cross & other Cross Roads at Munikondappa Layout in Ward No. 14, Bagalagunte, BBMP,
Reference	EE/DD/WO/374/2014-15 Dated: 31.03.2015
Source / Location	Hotmix Plant, Bangalore
Type of Mix	Bituminous Macadam
Date of Testing	15.04.2015

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	379	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	80	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	305	302	
4	Aggregate Impact value = percent fines	21.11	21.73	
	100* (W_2/W_1)%			21.42

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Macadam is 30%

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